

Amendments to the Claims

The following listing of claims will replace all prior versions of claims in the application.

1-10. (canceled)

11. (currently amended) A halogen free flame-retardant acrylic pressure-sensitive adhesive sheet or tape comprising:

a base material; and

a pressure-sensitive adhesive having an acrylic polymer containing units derived from a mixture consisting essentially of:

from 40 percent to 99 percent of an alkyl(meth)acrylate monomer,

from 0.5 percent to 50 percent of a nitrogen-containing monomer, and

from 0.5 percent to 20 percent of a carboxyl group-containing monomer,

and

from 15 parts to 400 parts by weight of a metal hydrate compound, to 100 parts by weight of the adhesive.

wherein the nitrogen-containing monomer and the carboxyl group-containing monomer are copolymerized with the alkyl(meth)acrylate monomer, wherein the adhesive is disposed upon said base material.

12. (currently amended) A flame-retardant acrylic pressure-sensitive adhesive tape or sheet comprising:

a base material;

a halogen free flame retardant-containing a first pressure-sensitive adhesive layer having two sides and containing ~~an~~ a first acrylic polymer containing units derived from a first mixture comprising:

from 40 to 97 parts by weight of an alkyl(meth)acrylate monomer, and

from 3 to 50 parts by weight of a nitrogen-containing monomer, and

from 15 to 400 parts by weight of a metal hydrate compound to 100 parts by weight of the first adhesive,
wherein the nitrogen-containing monomer in the first mixture is copolymerized with the alkyl(meth)acrylate monomer in the first mixture and wherein the flame retardant-containing first pressure-sensitive adhesive layer is disposed upon said base material; and
a second pressure-sensitive adhesive layer in contact with at least a portion of at least one side of the flame retardant-containing pressure-sensitive adhesive layer and containing ~~an~~ a second acrylic polymer containing units derived from a second mixture comprising:
from 60 to 99 parts by weight of an alkyl(meth)acrylate monomer, and
from 1 to 20 parts by weight of a carboxyl group-containing monomer[.],
wherein the carboxyl group-containing monomer in the second mixture is copolymerized with the alkyl(meth)acrylate monomer in the second mixture.

13. (previously presented) The flame-retardant acrylic pressure-sensitive adhesive sheet or tape according to claim 12, wherein a unit derived from a carboxyl group-containing monomer is additionally contained as a unit of the acrylic polymer present in the flame retardant-containing pressure-sensitive adhesive layer.

14. (previously presented) The flame-retardant acrylic pressure-sensitive adhesive sheet or tape according to claim 12, wherein a unit derived from a nitrogen-containing monomer is additionally contained as a unit of the acrylic polymer present in the second pressure-sensitive adhesive layer.

15. (previously presented) The flame-retardant acrylic pressure-sensitive adhesive sheet or tape according to claim 12, wherein the second pressure-sensitive adhesive layer is present on at least a portion of both sides of the flame retardant-containing pressure-sensitive adhesive layer.

16. (previously presented) The flame-retardant acrylic pressure-sensitive adhesive sheet or tape according to claim 13, wherein the second pressure-sensitive adhesive layer is present on at least a portion of both sides of the flame retardant-containing pressure-sensitive adhesive layer.

17. (previously presented) The flame-retardant acrylic pressure-sensitive adhesive sheet or tape according to claim 14, wherein the second pressure-sensitive adhesive layer is present on at least a portion of both sides of the flame retardant-containing pressure-sensitive adhesive layer.

18. (previously presented) The flame-retardant acrylic pressure-sensitive adhesive sheet or tape according to claim 15, wherein the second pressure-sensitive adhesive layer is present on at least a portion of both sides of the flame retardant-containing pressure-sensitive adhesive layer, and the flame retardant-containing pressure-sensitive adhesive layer is a foam.

19. (currently amended) A flame-retardant acrylic pressure-sensitive adhesive tape or sheet comprising:

a base material;

a halogen free flame retardant-containing a first pressure-sensitive adhesive layer having two sides and containing an a first acrylic polymer containing units derived from a first mixture comprising:

from 60 to 99 parts by weight of an alkyl(meth)acrylate monomer, and

from 1 to 20 parts by weight of a carboxyl group-containing monomer, and

from 15 parts to 400 parts by weight of a metal hydrate compound to 100

parts by weight of the first adhesive,

wherein the carboxyl group-containing monomer in the second mixture is copolymerized with the alkyl(meth)acrylate monomer in the second mixture, and

a second pressure-sensitive adhesive layer in contact with at least a portion of at least one side of the flame retardant-containing pressure-sensitive adhesive layer and containing an acrylic polymer containing units derived from a second mixture comprising:

from 40 to 97 parts by weight of an alkyl(meth)acrylate monomer, and

from 3 to 50 parts by weight of a nitrogen-containing monomer[.],

wherein the nitrogen-containing monomer in the second mixture is copolymerized with the alkyl(meth)acrylate monomer in the second mixture.

20. (previously presented) The flame-retardant acrylic pressure-sensitive adhesive sheet or tape according to claim 19, wherein a unit derived from a nitrogen-containing monomer is additionally contained as a unit of the acrylic polymer present in the flame retardant-containing pressure-sensitive adhesive layer.

21. (previously presented) The flame-retardant acrylic pressure-sensitive adhesive sheet or tape according to claim 19, wherein a unit derived from a carboxyl group-containing monomer is additionally contained as a unit of the acrylic polymer present in the second pressure-sensitive adhesive layer.

22. (previously presented) The flame-retardant acrylic pressure-sensitive adhesive sheet or tape according to claim 19, wherein the second pressure-sensitive adhesive layer is present on at least a portion of both sides of the flame retardant-containing pressure-sensitive adhesive layer.

23. (previously presented) The flame-retardant acrylic pressure-sensitive adhesive sheet or tape according to claim 20, wherein the second pressure-sensitive adhesive layer is present on at least a portion of both sides of the flame retardant-containing pressure-sensitive adhesive layer.

24. (previously presented) The flame-retardant acrylic pressure-sensitive adhesive sheet or tape according to claim 21, wherein the second pressure-sensitive adhesive layer is present on at least a portion of both sides of the flame retardant-containing pressure-sensitive adhesive layer.

25. (previously presented) The flame-retardant acrylic pressure-sensitive adhesive sheet or tape according to claim 22, wherein the second pressure-sensitive adhesive layer is present on at least a portion of both sides of the flame retardant-containing pressure-sensitive adhesive layer, and the flame retardant-containing pressure-sensitive adhesive layer is a foam.

26. (new) The adhesive sheet or tape of claim 11 wherein the amount of metal hydrate is from 30 to 200 parts by weight.

27. (new) The adhesive sheet or tape of claim 12 wherein the amount of metal hydrate is from 30 to 200 parts by weight.

28. (new) The adhesive sheet or tape of claim 19 wherein the amount of metal hydrate is from 30 to 200 parts by weight.